

Claims

- [c1] 1. a) method to strip cured paint from plastics with low temperature thresholds, and wood, steel, aluminum, brass, magnesium and non-ferrous substrates comprising: a) application of a stripping composition to a cured painted substrate, said stripping composition comprising a mixture of Boron methoxide consisting: at least one alcohol, at least one surfactant and at least one evaporation inhibitor, and may contain at least one additive selected from the group consisting ; water, organic solvents, alcohols, aliphatic solvents, polar solvents, non-polar solvents, naphtha, oxygenated solvents, chlorinated solvents, acetones, ketones, acetates, terpene solvents, esters, acetylene solvents, glycols, ethers, propionate solvents, carbonates, aromatic solvents, kerosene, fatty acid based solvents, vegetable based solvents, acids, inorganic acids, organic acids, fatty acids, lactic acids, glycolic acids, alkaline hydroxides, alkaline silicates, phosphates, oxides, sulfates, nitrates, alkaline salts, acid salts, amines, peroxides, oxidizers, rust inhibitors, chelators, defoamers, thickeners, fragrances, coloring agents, evaporation inhibitors, waxes, oils, surfactants and mixtures thereof; b) immersing said cured

painted substrate in said strip tank containing said strip-ping composition at ambient temperature for approximately 15 minutes to 30 minutes, wherein cured paint is removed from said substrate; or c) applying said strip-ping composition on said cured painted substrate in a thickened form at ambient temperature for approximately 15 minutes to 30 minutes, wherein cured paint is removed from said substrate

[c2] 2.The method of claim 1, wherein said Boron methoxide is in the range of 0.1–99.9 percent by weight.

[c3] 3.The method of claim 1, wherein said alcohol is in the range of 0.1–99.5 percent by weight.

[c4] 4.The method of claim 1, wherein said surfactant is in the range of 0.1–99.5 percent by weight.

[c5] 5.The method of claim 1, wherein said evaporation inhibitor is in the range of 0.1–99.5 percent by weight.

[c6] 6.The method of claim 1, wherein said additives is in the range of 0.1–99.5 percent by weight.

[c7] 7.The method of claim 2, wherein said Boron methoxide is selected from the group consisting; alkyl borate, methyl borate azeotrope mixture, boric acid acetate, methyl borate, trimethyl borate, boric acid trimethyl es-

ter, trimethoxyborane, trimethoxyborine, trimethoxyboron, trimethyl borate, trimethylester kyseliny borite in a preferred range of 0.1–97 percent by weight.

[c8] 8.The method of claim 3, wherein said alcohol is selected from the group consisting; ethanol, methanol, butanol, propanol, pentanol, hexanol, heptane, septanol, octanol, nonanol, decanol, (HGNS) high grade neutral spirits derived from molasses or grain, denatured alcohol, vegetable, plant, grain and wood derived alcohols, industrial methylated spirits, mineralized methylated spirits, organic alcohols, alkyl alcohols, iso alcohols, normal alcohols, secondary alcohols, tertiary alcohols, nonyl alcohols, ethoxylated alcohols, butoxy alcohols, butyl alcohols, carboxylated alcohols, glycol based alcohols, and benzyl alcohols, ethyl acetate alcohol mixtures, butyl acetate alcohol mixtures, propyl acetate alcohol, fatty acid based alcohols, and alcohol mixtures thereof, in a preferred the range of 0.1–50 percent by weight.

[c9] 9.The method of claim 4, wherein said surfactant is selected from the group consisting; surfactants, non-ionic surfactants, anionic surfactants, cationic surfactants, amphoteric surfactants, acetate based surfactants, acetylene based surfactants, solvent based surfactants, phosphate ester surfactants, acid pH based surfactants, alkaline pH based surfactants, neutral pH surfactants,

sulfonic acid surfactants, phosphoric acid surfactants, fatty acid based surfactants, inorganic acid based surfactants, carboxylate based surfactants, alkylate based surfactants, alcohol based surfactants, nonylphenol surfactants, oxide-based surfactants, sulfur based surfactants, alkylphenol containing surfactants, ethoxylated surfactants, sulphonate based surfactants, amine based, amine oxides surfactants, amide surfactants, glycol based surfactants and quaternary surfactants and surfactant mixtures thereof, in a preferred range of 0.1–50 percent by weight.

[c10] 10.The method of claim 5, wherein said evaporation inhibitor is selected from the group consisting; petroleum oils, organic oils, synthetic oils, mineral oils, vegetable and plant derived oils, animal oils, fish oils, castor oils, waxes, surfactants, fatty acids, slow evaporation co-solvents, water, film forming agents and mixtures thereof, in a preferred range of 0.1–50 percent by weight.

[c11] 11.The method of claim 6, wherein said additive is selected from the group consisting; water, organic solvents, alcohols, aliphatic solvents, polar solvents, non-polar solvents, naphtha, oxygenated solvents, chlorinated solvents, acetones, ketones, acetates, terpene solvents, esters, acetylene solvents, glycols, ethers, propi-

onate solvents, carbonates, aromatic solvents, kerosene, fatty acid based solvents, vegetable based solvents, acids, inorganic acids, organic acids, fatty acids, lactic acids, glycolic acids, alkaline hydroxides, alkaline silicates, phosphates, oxides, sulfates, nitrates, alkaline salts, acid salts, amines, peroxides, oxidizers, rust inhibitors, chelators, defoamers, thickeners, fragrances, coloring agents, evaporation inhibitors, waxes, oils, surfactants and mixtures thereof, in a preferred range of 0.1–50 percent by weight.